

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION	
Trade Name	MET-L-COOL BIOCOOL-Blue
Manufacturer/Supplier	ITW Chemin, ITW INDIA LIMITED
Address	Plot No: 34 to 37, Phase- 2, IDA, APIIC, Pashamylaram, Medak, Dist- 502307, (35 kms from Hyderabad), Andhra Pradesh, INDIA
Phone Number	+91 8455 224700/224701
Fax Number	+91 8455 224705
E-mail	chemininfo@itwchemin.com
Website	www.itwchemin.com

2. COMPOSITION/INFORMATION ON THE COMPONENTS				
No Hazardous components as per OSHA' S HAZARD COMMUNICATION STANDARD 29CFR 1910.1200				
Component Name	CAS#	Concentration	Exposure Limits	R-Phrase
Fatty acid alkonalamide	202-281-7	5-15%	ACGIH: TWA 5 mg/m3	R 36/R38
Light naphthenic, chemically neutralized oil	64742-52-5	20-50%	ACGIH: TWA 5mg/m3	
Amphoteric surfactant blend	90170-43-7	20-30%		
Ethoxylated Fatty alcohol		10 –15%		R36
Butyl Diglycol	112-34-5	1-5%		R36

3. HAZARD IDENTIFICATION	
Statement of hazardous/dangerous nature	Hazardous. Non dangerous

4. FIRST AID MEASURES	SYMPTOMS	ACTIONS
Eye contact	May be Mild irritation at the site of contact.	Wash immediately with plenty of soap and water
Skin contact	May be Irritation and redness	Bathe the eye with running water for 15 minutes. Consult a doctor
Ingestion	May be irritation of throat	Wash out mouth with water
Inhalation	May be coughing and sore throat.	Remove causality from exposure ensuring one's own safety whilst doing so.

5. FIRE FIGHTING MEASURES	
Extinguishing Media	Use foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	Do not use water jet.
Special Hazards of Product	This product may give rise to hazardous fumes in a fire.
Protective Equipment for Fire-Fighting	Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES	
Personal Precautions	Material can create slippery conditions underfoot.
Environmental Precautions	Try to prevent the material from entering drains or rivers.
Spillages	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Finally flush area with plenty of water.

7. HANDLING AND STORAGE

Handling	Use only at the dilution specified. See label or technical data sheet.
Storage	Storage temperature should be controlled to between 5 and 40 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Control Measures	Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Use of the basic principles of Industrial Hygiene will enable this material to be used safely.
Respiratory Protection	Respiratory protection not normally required.
Hand Protection	Concentrated product - PVC or rubber gloves. Diluted product - Use a good quality barrier cream.
Eye Protection	Chemical resistant goggles if there is a risk of eye contact.
Body Protection	Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Color	Blue
Odor	Faint ammonia odor.
pH	9.5 – 10.5 at 5.0 % volume in water. (Typical)
Boiling Range/Point (°C)	Boils above 100.
Flash Point (PMCC) (°C)	Exceed 100.
Solubility in Water	Miscible.
Density	1.0 (measured as kg/liter)
Auto-flammability (°C)	Above 200.
Viscosity (CSt)	Mobile liquid at ambient temperatures. (100+/-10 CST @37.8C)

The above mentioned values are typical ,can't be inferred as product specifications

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	High temperatures.
Materials to Avoid	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products	After evaporation of water, combustion will generate: oxides of nitrogen. ammonia. smoke, possibly thick and choking, resulting in zero visibility.

11. TOXICOLOGICAL INFORMATION

Routes of exposure	Refer to section 4 of MSDS for routes of exposure and corresponding symptoms
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12. ECOLOGICAL INFORMATION

Mobility	The product will leach into soil. The product is non- volatile and water-soluble and will partition to the aqueous phase.
Persistence/Degradability	The product is expected to be partially or slowly biodegradable.

13. DISPOSAL

Product Disposal	Incineration. Dispose of in accordance with all applicable local and national regulations.
Container Disposal	Labels should not be removed from containers until they have been cleaned. Dispose of containers with care. Do not incinerate closed containers.

14. TRANSPORT INFORMATION

ADR/RID	Non dangerous
IMDG/ IMO	Non dangerous
IATA/ICAO	Non dangerous

15. REGULATORY INFORMATION

Hazard Symbols	IRRITANT
Risk phrases	R36: irritating to eyes R38: irritating to skin
Safety phrases	None
Note	The regulatory information given above only indicates the principle regulations specifically applicable to the product described in the safety data sheet. The users attention is drawn to the possible existence of additional provisions, which complete these regulations. Refer to all applicable national and local regulations or provisions.

16. OTHER INFORMATION

Other information	Metal Working Fluid
HMIS RATING	Health: 1 Reactivity: 1 Flammability: 0
Legal disclaimer	The above information is believed to be correct but does not purport to be all-inclusive and shall be only used as guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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